

IN THE CLAIMS:

The listing of claims will replace all prior versions, and listing of claims in the application.

1 (original): A single crystal of a silicate of a rare earth element wherein the crystal contains aluminum in an amount of higher than 0.4 ppm and not more than 50 ppm and/or iron in an amount of higher than 0.1 ppm and not more than 50 ppm.

2 (original): The single crystal of a silicate of a rare earth element of claim 1, wherein the crystal contains cerium in an amount of not less than 0.6 mole% and not more than 5 mole% and that it has a light transmittance, as determined at a wavelength of 450 nm, of not less than 75%.

3 (original): The single crystal of a silicate of a rare earth element of claim 1 or 2, wherein the crystal contains aluminum in an amount of higher than 0.4 ppm and not more than 50 ppm.

4 (original): The single crystal of a silicate of a rare earth element of claim 1 or 2, wherein the crystal contains iron in an amount of higher than 0.1 ppm and not more than 50 ppm.

5 (currently amended): The single crystal of ~~any one of claim 1 to 4~~ claim 1 or 2, wherein the rare earth element is gadolinium.

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6 (currently amended): The single crystal of ~~any one of claim 1 to 5~~ claim 1 or 2, wherein the crystal is cerium-doped gadolinium silicate.

7 (currently amended): A scintillator which comprises the single crystal of ~~any one of claim 1 to 6~~ claim 1 or 2.